

iSeries Selection Guide

Temperature, Process and Strain Meters and PID Controllers

								
	i8	i8DH	i8DV		i8C	i16	i16D	i32
NEWPORT®								
Description:	1/8 DIN Single Display Monitor/ Controller	1/8 DIN Dual Display Horizontal PID Controller	1/8 DIN Dual Display Vertical PID Controller		1/8 DIN Ultra Compact Monitor/ Controller	1/16 DIN Single Monitor/ Controller	1/16 DIN Dual Display PID Controller	1/32 DIN Single Monitor/ Controller
Input Process and Temperature (model "i") T/C: (J, K, T, E, R, S, B, N, C, J DIN) RTD: Pt 100,500,1000 Ohms (385,392) 4-20 mA, 0-100 mV, 0-1 V, 0-10 V	✓	✓	✓		✓	✓	✓	✓
Strain and Process (model "IS") 4 to 20 mA, 0 to 100 mVdc, -100 mVdc to 1 Vdc, 0 to 10 Vdc Ratiometric/ Non-Ratiometric; 10 pt linearization	✓	✓	✓		✓	✓	✓	✓
Humidity and Temperature (model "iTH")		✓	✓				✓	✓
Display: Nine Segment LED Digits Color Programmable: Red, Amber, Green	Single Display	Dual Display	Dual Display		Single Display	Single Display	Dual Display	Single Display
Height of Digits	21mm (0.83")	Process Value: 21 mm (0.83") top display Setpoint Value: 10.2 mm (.40") bottom display	Process Value: 10.2 mm (.40") top display Setpoint Value: 10.2 mm (.40") bottom display		21 mm (0.83")	10.2 mm (.40")	Process Value: 10.2 mm (.40") top display Setpoint Value: 10.2 mm (.40") bottom display	10.2 mm (.40")
Available Output Options (Any combination of Two)		Two Outputs Standard	Two Outputs Standard				Two Outputs Standard	
SSR's: Solid State Relays 0.5A @120/240 Vac	✓	✓	✓		✓	✓	✓	✓
Relays: Form "C" SPDT 3A @120/240 Vac	✓	✓	✓		✓	✓	✓	✓
Pulse: 10 Vdc @20 mA (for use w/ external Programmable Analog Voltage & Current Output (non-isolated))	✓	✓	✓		✓	✓	✓	✓
Other Output Options								
Isolated Programmable Analog Voltage & Current Output	✓					✓		
Limit Alarm (-AL) or Simplified Menu (-SM)	✓	✓	✓		✓	✓	✓	✓
Power: (standard) 90-240 Vac, 50-400 Hz 110-375 Vdc, Equivalent voltage	✓	✓	✓		✓	✓	✓	✓
Low Voltage Power Option	✓	✓	✓		✓	✓	✓	✓
Mechanical (size: H x W x D)	48 x 96 x 127 mm (1.89 x 3.78 x 5")	48 x 96 x 127 mm (1.89 x 3.78 x 5")	96 x 48 x 127 mm (3.78 x 1.89 x 5")		48 x 96 x 54.84 mm (1.89 x 3.78 x 2.16")	48 x 48 x 127 mm (1.89 x 1.89 x 5")	48 x 48 x 127 mm (1.89 x 1.89 x 5")	25.4 x 48 x 127 mm (1.0 x 1.89 x 5")
Weight	295 g (0.65 lb)	295 g (0.65 lb)	295 g (0.65 lb)		255 g (0.55 lb)	159 g (0.35 lb)	159 g (0.35 lb)	127 g (0.28 lb)
Network Options								
1. RS232, RS422, RS485, modbus (-C24)	✓	✓	✓		✓	✓	✓	✓
2. Ethernet + RS485, Modbus* (-C4EIT)	✓	✓	✓				✓	
3. Ethernet (-EIT)	✓	✓	✓		EIT-D or EIT-W	EIT-D or EIT-W	✓	EIT-D or EIT-W
Most Popular Model	i833-C24: 1/8 DIN single display controller with two mechanical relay output + Serial output	i8DH33-C4EIT: 1/8 DIN dual display Horizontal Controller with two mechanical relay output + Serial and Ethernet output	i8DV43: 1/8 DIN dual display Vertical Controller with pulse and relay output		i8C53: 1/8 DIN compact controller with analog and relay output	i1633: 1/16 DIN single display controller with two relay outputs	i16D43-C24: 1/16 DIN Dual Display with pulse and relay output + serial output	i3243-C24: 1/32 DIN controller with pulse and relay output + serial output